	Application No.	Applicant(s)	
Notice of Allowability	10/006,999	FABER ET AL.	
	Examiner	Art Unit	
	Yubin Huna	2624	
The MAILING DATE of this communication apperation apperation apperation apperation apperation (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to amendment filed 11/2 2. The allowed claim(s) is/are 2-5,7-10,12-18 and 39-41. 3. Acknowledgment is made of a claim for foreign priority until a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have	(OR REMAINS) CLOSED or other appropriate com GHTS. This application i and MPEP 1308. 20/06. Ider 35 U.S.C. § 119(a)-(a) been received.	in this application. If not included munication will be mailed in due cous subject to withdrawal from issue at all or (f).	rse. THIS the initiative
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application. itted. Note the attached E	XAMINER'S AMENDMENT or NOTI	
 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Revise Amendment / Comment	or in the Office action of the drawings in the front (not the bac	ck) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MA	TERIAL must be submitted. Note	the .
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	6. 🗌 Interview	Informal Patent Application Summary (PTO-413), o./Mail Date 's Amendment/Comment	
Paper No./Mail Date		's Statement of Reasons for Allowar	nce
U.S. Patent and Trademark Office			
	otice of Allowability	Part of Paper No./Mail I	Date 20061218

Application/Control Number: 10/006,999 Page 2

Art Unit: 2624

Response to Amendment/Arguments

1. This action is in response to the amendment filed on Nov. 20, 2006, which has been entered.

- 2. In view of Applicant's amendment, the 35 USC § 112 rejections of claims 2-5, 7-10, 40 and 41 have been withdrawn.
- 3. Applicant's amendment has rendered moot the 35 USC § 102 and 103 rejections of claims 2-5, 7-10, 40 and 41.

Allowable Subject Matter

4. Claims 2-5, 7-10, 12-18 and 39-41 are allowed. [Note: Claim 39 recites "combination of unmodified values" in lines 17, 23 and 26, each corresponding to one of three passes of data processing (recited in lines 16-19, 20-25 and 26-28, respectively). It is clear that "unmodified" in each pass is with respect to the processed data from its preceding pass and is examined and allowed on this basis. Note further that this interpretation was indicated in the Office actions mailed 01/13/2006 and 07/20/06 and has not been traversed by Applicant.]

Application/Control Number: 10/006,999

Art Unit: 2624

5. The following is an examiner's statement of reasons for allowance:

A. Regarding claim 39, closest art of record Gormish discloses the limitations recited in the first three paragraphs of the claim (per the analysis of claim 1).

Additionally, Li et al. ("On implementing Transforms from integers to integers," Proc. ICIP, Vol. III, 4-7 Oct. 1998, pp. 881-885) discloses reversible integer-to-integer transform (for a given linear transform). However, neither teaches nor suggests modifying at least one data value using the three passes as recited in the claim.

Page 3

- B. Regarding claim 40, while closest art of record Gormish et al. ("Lossless and nearly lossless compression for high quality images," Proceedings of the SPIE, Vol. 3025, March 1997, pp. 62-70) discloses most of its limitations (per the analysis in the rejection of claim 40 in the office action mailed 07/20/06), it does not disclose, teach or suggest that the linear transform in question is a 2x2 diagonal matrix with a determinant of 1, is factored in one of the recited manners or that a corresponding error bound is minimized.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/006,999

Art Unit: 2624

Conclusion and Contact Information

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Hallapuro et al. (US 7,082,450) discloses a method that simplifies a DTC transform by diagonal factorization and approximating irrational matrix entries with rational numbers [columns 9 & 10]
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yubin Hung whose telephone number is (571) 272-7451. The examiner can normally be reached on 7:30 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on (571) 272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 4

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yubin Hung
Patent Examiner
Art Unit 2624

December 18, 2006